SOUTHERN REGION GRMP
SITE INSPECTION FORM

SITE NUMBER AND NAME: **S012 Spray Lakes Road**	HIGHWAY & KM: 742:02, 4.319	PREVIOUS INSPECTION DATE: May 1, 2018	INSPECTION DATE: **May 7, 2019**
LEGAL DESCRIPTION 11-29-024-10 W5M	NAD 83 COORDINATES: UTM 11 Northing 5659724 Easting 614296	RISK ASSESMENT: PF: 11 CF: 7 TOTAL: 77	
AVERAGE ANNUAL DAILY TRAFFIC (AADT): 1145 (north); 1141 (south), (Ref No. 67429980)		CONTRACTOR MAINTENANCE AREA (CMA): 28	

SUMMARY OF SITE INSTRUMENTATION:	INSPECTED BY:
None LAST READING DATE: N/A	Chris Gräpel (KCB) Chris Morgan (KCB) Renato Macciotta (KCB) Roger Skirrow (AT) Alex Frotten (AT) Nicolas Ropchan (AT)

PRIMARY SITE ISSUE: Voids from old coal mines under road, 3.5 to 6 m below highway.

APPROXIMATE DIMENSIONS: Coal mine voids present below 80 to 100 m of highway and below adjacent areas

DATE OF ANY REMEDIAL ACTION: Geophysical investigation completed in September 2017, followed by drilling investigation in April 2018. Final tender and drawings submitted for tendering in June 2019.

ITEM	CONDITION EXISTS		DESCRIPTION AND LOCATION	NOTICABLE CHANGE FROM LAST INSPECTION	
	YES	NO		YES	NO
Pavement Distress	X		Previously patched headboxes have settled slightly. Pavement cracking over entire width of highway		X
Slope Movement		X	Shallow bedrock present at site, bedrock exposed in backslope to the south of the highway.		X
Erosion		X			X
Seepage		X			X
Culvert Distress		X	Depression noted in ditch at outlet of culvert.		X

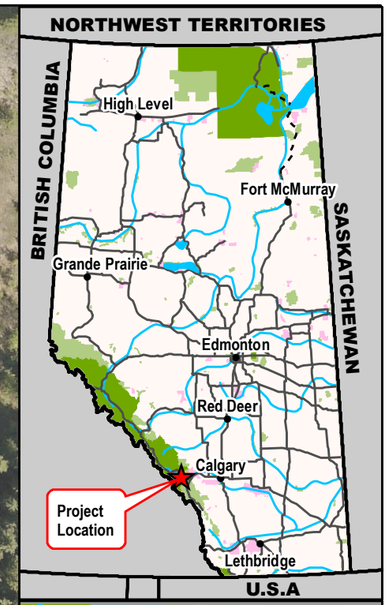
COMMENTS

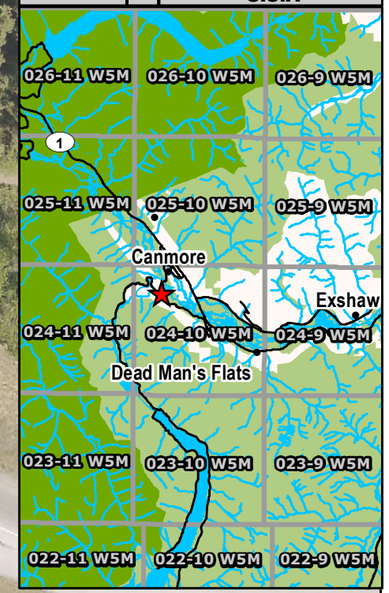
No observable changes to the site when compared to 2018 inspection.

Pavement surface has some subtle depressions, indicating movement of subgrade. Bedrock is exposed to the south of the subject site. Subtle depression noted at outlet of culvert to east of site, may indicate infiltration of culvert discharge into an underlying void.

Settlement of flush mounted head boxes and void formation between head box and asphalt may indicate seepage of water from pavement surface into void via boreholes is promoting settlement of road surface and deformation of asphalt around boreholes.

The locations of the 2018 boreholes are shown on Figure 1. Repair works are proposed for 2019 construction.





Legend

- 2018 Borehole
- Borehole (metal cap)
- Borehole (filled)
- Borehole (covered by asphalt)
- Culvert
- Void

Metres
0 25

NOTES:
1. HORIZONTAL DATUM: NAD83
2. GRID ZONE: UTM Zone 11N
3. IMAGE SOURCE: World Imagery, ESRI ArcGIS Online. Town of Canmore 2017 Imagery

CLIENT: Alberta

Klohn Crippen Berger

PROJECT: SOUTHERN REGION GEOHAZARD RISK MANAGEMENT PROGRAM

TITLE: Site Plan
S012 - Canmore Spray Lakes Road
Hwy 742:02, km 4.319

SCALE	PROJECT No.	FIG No.
1:800	A05115A03	1

Time: 16:22:35 PM
Date: May 29, 2019
File: Z:\AE\EDM\A05115A03 ABT Southern Region GRMP\400 Drawings\201912_Section BM\XDS\S012_190529.mxd

Photo 1 **Patched boreholes in pavement. Photo was taken facing north on May 7, 2019.**

Photo 2 **Pavement cracking and flush-mounted headbox for an old borehole. Photo taken facing west on May 7, 2019.**